

- antibody (i.e., TSHR-auto-Ab) The substance detected in both the present invention and in Bergmann et al. is the TSH receptor auto
- The structure immobilized in the present invention is the TSH receptor (i.e., TSHR)
- The structure immobilized in Bergmann et al. is the antibody against the hormone (i.e., TSH-Ab)

## Present Invention:

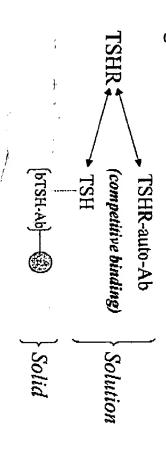
rhTSHR(imm)\* = immobilized and purified recombinant human TSH Receptor, i.e., 

- First sten: rhTSHR(imm)\* binds to TSHR-auto-Ab
- First step: rhTSHR(imm)\* binds to TSHR-auto-Ab (TSH receptor auto antibody)

• Second step: Any rhTSHR(imm)\* not bound to TSHR-auto-Ab binds to 1251-bTSH (labelled bovine TSH)

- quantified) from total amount of thTSHR(imm)\* • The amount of TSHR-auto-Ab can be determined by subtracting bound 125I-bTSH (which can be
- The first and second steps can be conducted simultaneously.

## Bergmann et al.:



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